## Re: High Linolenic Linseed Flax

The cross 97-27018-3/97-24021-4 from which M5791 was derived also produced many other lines with 73% linolenic content. Two of these sister lines of 97-7981-3 and 97-7741-4 were crossed with an accession, U5-5. Selection for high linolenic content was carried out using a breeding procedure identical to that described in the development of M5791

- Analysis of seed of F2 plants derived from the crosses.
- ½ seed analysis of seed of selected high linolenic F2 plants.
- Selection for high linolenic content in subsequent segregating generations.

Analysis Results of F2 Plants for linolenic acid content:

- 1. Cross 97-7981-3/U5-5
  - i. Analysis of 120 F2 plants.

Range -66.6% - 73.5%

Number of F2 plants over 70% - 74/120 (62%)

ii. ½ seed analysis of F2 plant 160-53 (73.5%)

Range - 69.1 - 77.3 %

Number of seeds over 70% - 99/100 (99%)

- 2. Cross 97-7741-4/U5-5
  - i. Analysis of 119 F2 plants.

Range - 66.6% - 75.0%

Number of F2 plants over 70% - 48/119 (40%)

ii. ½ seed analysis of F2 plant 157-43 (75%)

Range -69.0 - 78.4

Number of seeds over 70% - 98/100 (98%)

Selection for high linolenic content in subsequent segregating populations derived from selected F2 plants resulted in the identification of brown and yellow seeded lines with 2.0 percentage points higher linolenic content than that of M5791. Agronomic suitable brown seeded lines developed from cross 97-7981-3/U5.5 are:

M6549	M6561
M6550	M7059
M6552	<b>M7061</b>
M6553	M7062
M6554	M7069
M6555	

Agronomic suitable yellow seeded lines developed from cross 97-7741-4/U5-5 include M6666, M7073, M7076 and M7077

Lines M6552 and M7073 will be commercialized once patent for high linolenic flax is granted.

(a) C) ask 97-7981-3/U5-5 Sengle [2 Nonts

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AGR	ICULTURE CANAD	A M	ORDENE	PESEARC	H STATIO	) N		ļ	
	5s7.XLS		TINDER	LOLANO	HOTAIR	718	<del> </del>		
		OILSEED	OLIALITY	AMALVO	216	<del> </del>	-		
-		0.20220	GOALIII	AIGALI					_
MAR	PLES ANALYSED:	F2 Single	Plant		DATE:	Oct. 20	1000		
	DITIONS:	160 25 se			<del></del>	<del> </del>	1998	<u> </u>	_
-	<u> </u>	100 20 30	Jeu 9/	. 7981.	3/10	AB 5-5	<del></del>		
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	40.0	40.0	
1	160-1	. 201	208.7	3.7	2.3	16.5	<b>18:2</b> 9.3	18:3	
2	160-2		214.7	3.6	(2.2)	13.1	9.8	68.2	
3	160-3		207.7	3.4	2.5	17.6	8.4	71.3	
4	FP 1001 (25 seed)		198.3	5.0	3.4	16.6	13.7	68.0	
5	160-4		213.8	3.5	2.5			61.3	
6	160-5		214.2			13.8	9.0	71.3	
7	160-6		214.2	3.5 3.4	2.3	12.8	11.1	70.3	
8	160-6				2.5	14.0	8.8	71.3	1
9	160-7		211.8	3.3	2.6	14.8	9.4	69.9	
10			214.7	3.7	2.2	13.9	(8.0)	72.2	_'
10	160-9		214.1	3.5	2.7	13.5	8.7	71.6	
	160-10		214.3	3.5	2.5	12.2	11.4	70.3	_
12	160-11		216.5	3.2	2.4	12.7	9.0	72.6	ι
13	160-12		210.6	3.6	2.5	15.2	9.3	69.3	_
14	160-13		210.1	3.4	2.6	15.3	10.3	68.5	_
15	160-14		209.2	3.6	2.5	16.3	8.8	68.8	
16	160-15		214.8	3.7	(2.2)	13.3	9.2	71.7	ı
17	160-16		211.5	4.0	2.5	13.6	10.4	69.5	
18	160-17		213.2	3.5	(2.3)	14.3	9.2	70.7	-
19	160-18		213.3	3.4	2.6	13.5	10.2	70.4	
20	160-19		213.5	3.4	2.4	13.3	10.6	70.2	
21	160-20		214.4	3.9	(2.4)	12.0	10.9	70.8	_
22	160-21		210.3	3.7	2.5	15.6	8.7	69.5	_
23	160-22		210.7	3.6	2.5	14.3	11.1	68.5	
24	FP 1001 (Bulk)		196.7	5.3	3.3	16.9	14.2	60.2	7
25	160-23		211.9	3.5	2.3	14.1	11.0	69.1	
26	160-24		209.4	3.8	2.5	14.8	11.0	67.9	
270	160-25		213.7	3.7	2.2	13.3	10.3	70.5	_
28	160-26		215.6	3.3	2.3	12.9	9.5	71.9	_
29	160-27		213.1	3.7	2.2	13.4	10.7	70.0	1
30	160-28		215.6	3.6	2.0	12.4	10.7	71.2	1
31	160-29		216.2	3.8	2.3	11.4	10.7	71.8	1
32	160-30		217.0	3.7	2.2	12.0	9.2	72:9	
33	FP 1001 Bulk		196.6	5.3	3.3	16.9	14.2	60.2	1
34	160-31		213.3	3.4	2.5	14.0	9.5	70.7	,
35	160-32		215.3	3.7	2.2	13.0	9.2	72.0	-
36	160-33		211.7	3.4	2.8	14.1	10.3	69.4	-
37	160-34		214.4	3.4	2.4	13.8	8.8	71.6	
38	160-35		212.2	3.8	2.3	13.2	11.5	69.2	-
39	160-36		211.8	3.7	2.5	14.4	9.5	70.0	-
40	160-37		214.8	3.4	2.5	13.3	9.1	71.7	┨
41	160-38		206.5	3.7	2.8	16.5	10.2	66.7	-[

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AGR	ICULTURE CANAD	A M	ORDEN R	ESEARC	H STATIO	NC		<del> </del>	_
F2-2	5s7.XLS		1						_
		OILSEED	QUALITY	ANALY	SIS				_
									_
SAM	PLES ANALYSED:	ALYSED: F2 Single Plant			DATE:	Oct. 20	1998		_
CON	DITIONS:	160 25 s	eed						
	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3	
42			211.1	3.6	2.7	14.1	10.5	69.1	_
43			212.7	3.4	2.4	14.7	8.9	70.6	
44	160-41		212.0	3.8	2.7	13.2	10.7	69.7	
45			211.4	3.4	2.3	15.0	10.0	69.2	
46	160-43		210.1	3.7	2.9	14.0	10.9	68.5	_
47	160-44		213.8	3.8	2.4	13.4	9.3	71.1	-
48	160-45		213.5	3.4	2.5	13.4	10.3	70.4	
49	160-46		212.6	3.7	2.3	14.3	9.3	70.4	_
50	160-47		213.7	3.4	2.4	14.2	8.7	71.3	-
51	160-48		214.7	3.4	2.4	13.6	8.9	71.7	-
52	FP 1001 (25 seed)		198.5	5.1	3.4	16.5	13.6	61.4	-
53	160-49		216.4	3.6	2.5	11.5	10.1	72.3	-
54	160-50		215.6	3.6	2.6	12.5	9.2	72.2	_
55	160-51		212.0	3.3	2.4	15.2	9.0	70.1	-
56	160-52		213.4	3.2	2.5	14.4	9.1	70.8_	_
57	160-53		217.8	3.3	2.2	12.2	8.7	73.5	)
58	160-54		213.3	3.4	2.4	14.6	8.5	71.1	_
59	160-55		213.4	3.5	2.3	14.2	9.2	70.8	_
60	160-56		212.2	3.6	2.3	14.6	9.5	70.0	_
61	160-57		216.3	3.7	2.2	11.5	10.9	71.7	_
62	160-58		213.6	3.6	2.4	13.6	9.2	71.0	-
63	160-59		208.4	3.5	2.4	16.2	10.4	67.5	
64	160-60		215.4	3.4	2.3	13.2	9.2	72.0	_

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Cross 97-7981-3/U5-5 Tenfe F2 Mants

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	AGR	ICULTURE CANADA	NAC	DDEN E	RESEARC	L STATI			
		5s7B.XLS	IVI	JADEN	LJLANG	HOIAIN	JN		
	1 2-2	UST D. XEO	OILSEED	OHALITY	ANAI VS	10			
		<u> </u>	OILOLLD	QUALIT I	ANALIS				
	SAM	PLES ANALYSED:	F2 Single	Plant		DATE:	Nov. 2	1998	<u> </u>
		DITIONS:	160 25 se		7-798		clas-		
		51110143.	100 23 36	eu 7	1-178	1-2/4	cases -	<del>ن</del>	
	No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3
Q.	1	FP 1001 Bulk 10/27		196.3	5.4	3.4	16.9	14.0	60.2
~	2	160-61		212.0	3.6	2.6	14.2	9.5	
	3	160-62		212.6	3.8	2.7	13.5	9.5	70.1
	4	160-63		209.7	3.6	2.5	15.3	<del></del>	70.5
	5	160-64		213.9	3.7	2.3		10.3	68.3
	6	160-65		210.4	3.6		13.6	9.1	71.3
	7	160-66		210.4		2.6	14.1	11.5	68.2
	<del></del> 8	160-67		209.8	3.5	3.0	14.6	9.6	69.3
	9	160-68			3.6	2.6	15.5	9.6	68.8
	10	160-69		211.5	3.4	2.7	14.2	10.1	69.5
	11			210.9	3.6	2.5	14.6	10.4	68.9
		160-70		211.5	3.4	2.7	14.9	8.9	70.0
	12	160-71		211.2	3.5	2.7	14.3	10.4	69.2
	13	160-72		210.9	3.8	2.5	14.0	10.8	68.9
	14	160-73		213.2	3.7	2.5	12.8	10.7	70.2
	15	160-74		212.1	3.5	2.5	14.3	9.7	70.0
	16	160-75		213.6	3.4	2.4	14.0	9.7	70.6
	17	160-76		214.1	3.5	2.5	13.3	.9.5	71.2
	18	160-77		208.1	3.3	2.7	16.9	8.9	68.1
<i>o</i>	19	160-78		211.6	3.4	2.3	15.3	9.5	69.5
	20	FP 1001 25 s 10/27		200.8	4.8	3.5	15.4	13.6	62.7
	21	160-79		213.6	3.5	2.4	13.3	10.6	70.2
	22	160-80		212.3	3.8	2.4	14.1	9.4	70.3
	_23	160-81		214.5	3.7	2.4	13.0	9.3	71.6
	24	160-82		213.9	3.6	2.5	13.5	9.1	71.3
	25	160-83		212.8	3.4	2.7	14.0	9.0	70.8
	26	160-84		214.2	3.4	2.5	13.8	8.7)	71.6
	27	160-85		213.5	3.4	2.3	13.9	9.8	70.5
	28	160-86		212.6	3.4	2.1	14.8	9.8	69.9
	29	160-87		211.5	3.5	2.6	15.0	9.0	70.0
	30	160-88		213.0	3.5	2.2	14.3	9.7	70.3
Į	31	160-89		211.2	3.4	2.8	15.0	8.9	69.9
	32	160-90		212.1	3.3	2.5	14.9	9.3	70.0
	33	160-91		211.5	3.7	2.5	14.4	9.8	69.6
ĺ	34	160-92		213.9	3.7	2.6	12.7	10.1	70.9
	35	160-93		214.8	3.5	2.7	12.3	10.0	71.4
	36	、 160-94		210.1	3.6	2.5	15.0	10.2	68.6
ſ	37	160-95		213.3	3.3	2.6	13.1	11.1	69.9
	38	160-96		215.3	3.4	2.4	13.2	9.0	72.0
اہر	39	160-97		212.1	3.1	2.6	14.8	9.6	69.9
	40	FP 1001 Bulk 10/27		196.6	5.3	3.4	16.9	14.1	60.3
	41	160-98		214.4	3.1	2.8	13.5	9.2	71.4

	ICULTURE CANADA	N. IV	ORDEN R	ESEARC	CH STATIO	ИС		
F2-2	5s7B.XLS							
		OILSEED	QUALITY	ANALY	SIS			
SAM	PLES ANALYSED:	F2 Single	Plant	<del></del>	DATE:	Nov. 2	1998	
COM	DITIONS:	160 25 s	eed					
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:
42	160-99		213.4	3.3	2.5	14.0	9.7	70.
43	160-100		211.3	3.5	2.5	14.8	9.7	69.
44	160-101		208.1	3.7	2.4	15.5	11.8	66.
45	160-102		209.3	3.6	2.5	15.3	10.7	67.
46	160-103		212.3	3.6	2.6	14.2	9.2	70.
47	160-104		212.3	3.4	2.4	14.5	10.0	69.
48	160-105		210.9	3.7	2.6	14.1	11.0	68.
49	FP 1001 Bulk 10/27		196.7	5.2	3.5	17.0	13.9	60.
50	160-106		212.5	3.5	2.5	14.4	9.3	70.
51	160-107		213.1	3.4	2.5	14.5	8.7	70.
52	160-108		211.4	3.5	2.4	15.0	9.7	69.
53	160-109		212.4	3.3	2.7	14.6	8.8	70.
54	160-110		211.3	3.5	2.2	15.5	9.2	69.
55	160-111		216.8	3.2	2.4	12.5	9.3	72.
56	160-112		211.5	3.4	2.6	14.6	9.9	69.
57	160-113		211.3	3.7	2.8	13.5	10.9	69.
58	160-114		212.5	3.5	2.7	13.5	10.5	69.
59	160-115		213.9	3.4	2.5	13.9	8.7	71.
60	160-116		210.1	3.6	2.5	15.3	9.7	68.
61	160-117		213.8	3.6	2.7	13.2	9.4	71.
62	160-118		214.3	3.5	2.2	13.8	9.1	71.
63	160-119		212.4	3.4	2.4	14.6	9.3	70.
64	160-120		212.4	3.5	2.5	14.6	8.8	70.
65	FP 1001 25 seed		200.9	4.7	3.5	15.4	13.6	62.

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1/2 Seed anopleped

AGF	RICULTURE CANADA		MORDEN	RESFAR	CH STATI	ON		<del> </del>
F-16	SOA.XLS			LOLAN	CHSIAII	UN	+	
		OILSEE	D QUALIT	Υ ΔΝΔΙ Ν	V616	<del> </del>		<u> </u>
			1		7881-	2/		
SAN	IPLES ANALYSED:	F2 Half	Seed	31.	DATE:	3/uc	666.5	Ţ <u></u>
CON	IDITIONS:	160-53	Brown	<del> </del>	DATE:	Nov. 24	1998	
			1-1-1-11	<del> </del>			<del></del>	<del> </del>
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	40.4	40.0	
1	.00 00 1		216.1	3.7	1.7	<b>18:1</b> 14.2	18:2	18:3
2		0	219.5	3.6	2.0	12.1	7.4	73.0
3	160-53-3		218.9	3.4	2.3		7.1	75.2
4	160-53-4		219.6	3.5	2.0	11.4	8.8	74.1
5	160-53-5	V	220.6	3.6	2.0	12.1	7.3	75.1
6	160-53-6	V	216.7	3.3	1.9	11.2	7.7	75.5
7	160-53-7	•	221.1	3.1	2.1	13.6	8.3	72.9
8	160-53-8		221.9	3.4	1.7	12.2	6.2-	(76.4)
9	160-53-9		214.8	3.4		12.1	( 6.0	76.9
10	160-53-10		212.6	3.4	2.0	14.0	8.4	72.0
11	160-53-11		220.4	3.4	1.6	16.4	7.9	70.7
12	160-53-12		218.5	3.6		10.9	9.1	74.7 .
13	160-53-13		218.7	3.2	2.2	11.8	8.4 、	74.1、
14	160-53-14		221.0	3.5	2.1	12.4	8.0	74.3
15	160-53-15		218.4	3.5	2.1	10.8	7.9	75.7
16	160-53-16		218.0	3.5	2.4	12.4	6.8	74.9
17	160-53-17		217.0	3.5	2.1	13.0	7.1	74.4
18	160-53-18		217.6	3.6	2.6	11.6	9.4	72.9
19	160-53-19		217.0		2.3	12.1	8.3	73.7
20	160-53-20		216.7	3.5	2.0	11.8	8.2	74.5
21	160-53-21		218.8	3.5	2.0	13.2	8.1	73.1
22	160-53-22		217.0	3.3	2.3	12.3	7.4	74.7
23	160-53-23		217.0	3.5	2.0	13.0	8.4	73.2
24	160-53-24		216.1	3.4	1.9	13.9	7.0	73.7
25	160-53-25	/		3.5	2.3	13.0	8.4	72.7 .
26	160-53-26		219.4	3.7	2.0	11.6	7.7 •	75.0
27	160-53-27		217.2	3.4	2.0	12.9	8.7 .	73.0
28	160-53-28		214.1	3.7	1.9	15.0	7.5	72.0
29	160-53-29		216.2	3.7	2.7	11.9	8.7	73.0
30	160-53-30		208.4	3.7	2.2	18.0	7.0	69.1
31	160-53-31	/	217.6	3.1	1.8	13.8	7.8	73.4
32	160-53-32	<i>V</i>	220.1	3.3	2.3	11.3	7.7	75.3
33	160-53-33		216.1	3.4	2.5	13.9	6.3	73.9
34	160-53-34	<del></del>	217.9	3.6	2.5	11.8	8.1	74.0
5	160-53-35	- ×	219.8	3.4	2.1	12.2	7.0	75.4
36	160-53-36		218.7	3.6	2.5	11.9	6.7	75.3
37	160-53-37		216.9	3.4	2.3	12.8	8.1	73.3
8	160-53-38		218.8	3.3	2.2	11.7	8.7	74.0
9	160-53-39	-	222.8	3.3	2.0	11.1	6.4	77.3
0			221.3	3.6	2.0	11.1	7.1	76.3
1	160-53-40		217.5	3.6	2.2	12.4	8.0	73.8
<u> </u>	160-53-41		218.1	3.6	2.0	12.6	7.7	74.1

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AGR	ICULTURE CANADA	N	ORDEN R	ESEARC	H STATI	ON		
F-16	0A.XLS							
		OILSEED	QUALITY	ANALY	sis			
SAM	  PLES ANALYSED:	F2 Half S	eed		DATE:	Nov. 24	1998	
CON	DITIONS:	160-53	Brown					
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3
42	160-53-42		215.4	3.4	1.8	15.4	6.2	73.2
43	160-53-43	/	216.0	3.5	2.2	13.8	7.4	73.1
44	160-53-44	<b>V</b>	219.4	3.5	1.9	12.4	7.1	75.1
45	160-53-45		214.1	4.0	2.6	13.8	6.7	72.9
46	160-53-46		215.0	3.5	2.3	13.9	8.1	72.3
47	160-53-47		217.7	3.6	2.3	12.9	6.6	74.6
48	160-53-48		219.3	3.5	1.7	12.3	8.0	74.5
49	160-53-49		218.9	3.6	2.0	11.8	8.0	74.5
50	160-53-50		216.3	3.5	2.3	13.2	7.9.	73.1

(7.7/0 74.0)

3.3 2.2. 12.6- 5.7 3.5

	ICULTURE CANAD	A MO	ORDEN R	ESEARC	H STATIC	ИС			$\dashv$
F-16	0B.XLS								┨
		OILSEED	QUALITY	ANALYS	SIS				$\dashv$
									٦
	PLES ANALYSED:				DATE:	Jan. 13	1999		٦
COM	DITIONS:	Half seed	160-53	Brown					٦
									_
	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3	
1	160-53-51		216.1	3.8	2.4	12.3	8.6	72.9	
2	160-53-52		216.9	3.5	2.6	12.1	8.3	73.4	
3			213.8	3.3	2.0	15.7	7.2	71.8	
4			217.5	3.4	2.0	13.1	7.7	73.8	
5	160-53-55		218.6	3.4	2.3	12.1	7.7	74.5	
6	160-53-56		218.9	3.3	2.1	11.6	9.2	73.8	7
7	160-53-57		218.2	3.4	1.8	12.7	8.5	73.6	٦
8	160-53-58		214.3	3.5	2.0	14.4	8.7	71.5	٦
9	160-53-59		215.9	3.4	2.2	13.8	7.7	72.9	7
10	160-53-60		216.9	3.3	2.0	14.4	6.2	74.1	٦
11	160-53-61		218.2	3.4	2.5	11.8	8.2	74.1	$\dashv$
12	160-53-62		212.8	3.2	2.3	15.6	7.9	71.0	$\exists$
13	160-53-63		218.2	3.5	2.2	12.5	7.3	74.4	1
14	160-53-64		218.9	3.5	2.3	12.2	6.8	75.1	_
15	160-53-65		213.1	3.3	2.3	14.9	8.8	70.7	$\dashv$
16	160-53-66		218.8	3.2	1.8	12.5	8.7	73.8	٦
17	160-53-67		216.2	3.3	2.0	14.2	7.4	73.1	┨
18	160-53-68		216.4	3.3	2.2	13.6	8.0	72.9	┨
19	160-53-69		213.4	3.2	1.8	16.5	6.8	71.6	┨
20	160-53-70		217.2	3.2	1.9	13.6	8.1	73.2	$\dashv$
21	160-53-71		216.5	3.3	2.3	13.1	8.5	72.8	$\dashv$
22	160-53-72		215.7	3.2	2.1	15.1	6.1	73.4	-
23	160-53-73		216.8	3.5	2.1	13.5	7.3	73.4	$\dashv$
24	160-53-74		217.0	3.1	2.0	14.4	6.7		4
25			215.7	3.3	2.1	14.4	7.8	73.8	4
26	160-53-76		212.3	3.3	2.1	16.0		72.7	4
27	160-53-77		219.4	3.2	2.1		7.8	70.7	4
28	160-53-77		221.2	3.5	1.7	12.0	8.0	74.7	4
29	160-53-78		219.6	3.3		11.0	8.3	75.5	4
30	160-53-79		217.1	3.3	2.2	11.4	8.8	74.4	4
31	160-53-81		217.1		2.7	12.8	7.1	74.1	4
32	160-53-82	, ,		3.3	1.7	15.6	6.6	72.8	4
33	160-53-83	4.9		3.2	1.7	13.0	8.3	73.9	4
34	160-53-84		218.1	3.3	2.1	12.6	8.1	73.8	4
35			216.2	3.1	2.2	13.9	8.4	72.5	_
	160-53-85		219.1	3.2	2.5	11.7	7.9	74.7	_
36	160-53-86		215.1	3.3	2.1	14.2	8.6	71.8	
37	160-53-87		217.9	3.3	2.2	12.4	8.7	73.5	_
38	160-53-88		213.4	3.2	1.8	16.1	7.8	71.1	
39	160-53-89		211.7	3.5	2.5	16.3	6.6	71.2	
40	160-53-90		216.1	3.4	2.2	13.9	7.2	73.3	
41	160-53-91		214.5	3.2	1.8	15.1	8.5	71.4	-

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			: . 1)					
ACE	RICULTURE CANAD	)	DDEN	FOEADO				
	OB.XLS	A IVIC	JKDEN H	RESEARC	HSIAIR	ON		
	D.AEG	OILSEED	QUALITY	ANALYS	SIS			
ļ				7.007.12.10				
	IPLES ANALYSED:	F2			DATE:	Jan. 13	1999	
CON	IDITIONS:	Half seed	160-53	Brown				
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3
42			217.8	3.4	2.3	12.0	8.8	73.5
43			213.4	3.4	2.5	14.0	9.1	70.9
44			216.2	3.2	2.1	13.9	8.0	72.8
	FP 1001 Half 01/13		176.6	5.3	3.2	29.6	12.2	49.7
46	160-53-95		212.9	3.3	1.9	16.4	7.1	71.3
47	10000		216.5	3.3	2.2	13.4	8.2	72.9
48			215.4	3.4	2.0	14.7	7.2	72.7
49			217.3	3.4	2.7	11.7	9.0	73.3
50		4.8	214.5	3.3	1.5	15.8	7.8	71.6
51	160-53-100		216.2	3.2	1.8	14.4	7.7	72.8

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Boss 97-7741-4/US-5 Mans-151-43 1/2 Seed analepes

	#		Т-	T			T		_
AGR	ICULTURE CANADA	M	ORDEN 6	RESEARC	H STATIC	) DN	<del> </del>		4
	7A.XLS				71101711		<del> </del>		4
		OILSEED	OLIALITY	! / ΔΝΔΙ V	<u> </u>		<del> </del>		4
		OILOLLD	WOALII I			FC A	1/11.00	-	4
SAM	PLES ANALYSED:	F2 Halfa6e	bod	7	77-77	Nov. 24/	14.66	7 - 04	4
	DITIONS:	157-49-0	Yellow			NOV. /24/	1998		4
-	DITIONS. ( )	13/790	Tellow	73	<b>P</b>				4
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	40.0	40.0	4
1	157-43-1	1 201	216.0	3.5	2.4	13.4	18:2	18:3	4
2	157-43-2		218.4	3.4	2.4	11.7	7.7	73.1	4
$\frac{-2}{3}$	157-43-3	,	218.4	3.3	1.6	13.3	8.9	73.8	4
4	157-43-4	1	220.1	3.3	<del> </del>		7.9	73.8	4
5	157-43-5	X	218.2	3.7	1.9	12.7	6.3	75.8	]
6	157-43-6		222.1	3.7	1.5	14.1	6.0	74.8	4
7	157-43-7				2.1	10.8	7.4	76.4	_ 4
8	157-43-7	×	223.1	3.3	2.0	10.5	7.2	77.1	₽
9	157-43-9	$\nu$		3.4	2.0	11.9	7.2	75.5	4
10	157-43-10		216.2	3.7 3.7	2.6	11.8	9.6	72.4	1
11	157-43-10	ν	220.8		2.0	10.6	8.2	75.5	١Ĉ
12	157-43-11		215.9	3.6	2.3	13.4	7.6	73.1	1
13	157-43-13	V/	220.9	3.3	1.5	12.5	7.1	75.6	1
		N	221.6	3.5	1.8	11.5	6.7	76.5	4
14	157-43-14		207.5	3.7	3.4	16.6	7.3	69.0	ł
15	157-43-15		218.0	3.4	1.7	13.6	7.3	74.0	1
16	157-43-16	<u> </u>	221.4	3.4	1.9	11.0	7.9	ار 75.8	ľ
17	157-43-17	<u> </u>	221.8	3.2	2.7	10.4	6.8	76.9	ł
18	157-43-18	V	218.4	3.1	1.8	13.8	6.9	74.4	1
19	157-43-19	<u> </u>	220.7	3.4	1.8	11.6	7.7	75.4	ľ
20	157-43-20		221.9	3.6	1.9	10.4	8.1	76.0 ı	P
21	157-43-21	V	220.5	3.2	2.1	11.5	8.0	75.2	ŀ
22	157-43-22		218.7	3.2	2.0	12.5	8.2	74.0	1
23	157-43-23	*	217.9	3.5	(1.4)	14.6	5.8	74.7 -	ľ
24	157-43-24		218.4	3.5	1.6	13.1	7.8	74.0	1
25	157-43-25	<i>ν</i> ,	220.6	3.3	(1.5)	12.3	7.7	75.2	ŀ
26	157-43-26	V	222.4	3.2	2.1	10.6	7.6	76.5	ŀ
27	157-43-27		221.3	3.2	2.1	11.2	7.6	75.8	ŀ
28	157-43-28		219.9	3.7	2.3	10.3	8.9	74.8	ł
29	157-43-29		219.0	3.1	1.8	12.9	8.0	74.2	]
30	157-43-30	<u> </u>	219.6	3.5	1.8	12.3	7.4	75.0	Y
31	157-43-31	V	223.5	3.3	2.0	10.4	6.8	77.5 ×	ł
32	157-43-32		216.6	3.6	2.0	13.7	7.1	73.6	
33	157-43-33		218.1	3.3	1.6	13.6	7.6	73.8	
34	157-43-34	V	220.1	3.3	2.4	11.4	7.2	75,6_	ł
35	157-43-35	/	223.8	3.3	2.3	9.7	6.9	77.8	Ł
36	157-43-36		218.4	3.4	1.6	13.0	8.4	73.7	1
37	157-43-37	V	221.9	3.4	2.0	10.6	8.1	75.9	ł
38	157-43-38		218.0	3.2	1.9_	13.3	7.5	74.0	1
39	157-43-39	Ø	222.4	3.2	1.6	11.4	7.6	76.2	Y
40	157-43-40	X	221.7	3.5	2.3	10.2	7.8	76.2	r
41	157-43-41	,	218.3	3.7	1.8	12.8	7.3	74.4	

AGR	COLTURE CANADA	M	ORDEN R	ESEARC	CH STATI	ON		
F-15	7A.XLS							
		OILSEED	QUALITY	ANALY	SIS			
SAM	  PLES ANALYSED:	F2 Half S	ged		DATE:	Nov. 24	1998	
CON	DITIONS:	157-140	Yellow					
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3
42	157-43-42		218.5	3.5	2.2	11.5	9.3	73.6
43	157-43-43	1	219.5	3.3	2.2	12.1	7.4	75.0
44	157-43-44		217.9	3.6	2.1_	11.8	9.1	73.4
45	157-43-45	X	220.8	3.4	1.6	11.9	7.8	75.3
46	157-43-46	1	221.4	3.4	1.6	11.9	(6.8)	76.2
47	157-43-47		218.3	3.2	2.0	12.5	8.8	73.5·
48	157-43-48		221.3	3.5	2.4	10.3	7.8	76.0
49	157-43-49	i/	225.1	3.2	1.7	10.0	(6.6)	78.4
50	157-43-50	V	220.6	33.2	2.3	11.0	8.2	75.3

33 2.1 10.9 5.8 75.0

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AGR	ICULTURE CANAD	A MO	ORDEN F	RESEARC	H STATIC	)N		
	7B.XLS						<del> </del>	
		OILSEED	QUALITY	ANALYS	SIS			
				AIIALIC				
SAM	PLES ANALYSED:	F2	75.0		DATE:	Jan. 13	1999	
	DITIONS:	Half seed	157-43	Yellow	DAIL.	Jan. 15	1999	
			-	1011011				
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3
1	157-43-51		215.3	3.1	1.9	15.1	7.5	72.4
2	157-43-52		224.3	3.3	1.7	10.5	6.5	78.0
3	157-43-53		210.8	3.2	1.9	18.3	6.0	70.6
4	157-43-54		218.7	3.6	2.1	10.8	10.1	73.4
5	157-43-55		218.6	3.5	2.1	12.6	6.9	74.8
6	157-43-56		221.6	3.4	2.2	10.2	8.3	ļ
7	157-43-57		220.1	3.6	2.2	10.2	8.5	75.9 75.0
8	157-43-58		219.6	3.5	2.0	11.8	7.9	74.8
9	157-43-59		219.6	3.5	1.5	12.4	8.0	
10	157-43-60	4.7	221.7	✓ 3.0	1.7	12.4	6.2	74.5 76.5
11	157-43-61	-	218.6	3.2	1.5	13.6	7.5	74.1
12	157-43-62	4.7	220.8	3.3	2.1	11.6	7.3	75.9
13	157-43-63		224.1	3.2	1.9	10.1	7.3	77.5
	FP 1001 Half 01/13		183.0	5.0	3.2	26.7	11.9	53.3
15	157-43-64		221.1	3.1	2.3	11.2	7.7	75.7
16	157-43-65	4.8		3.0	1.8	14.0	6.5	74.8
17	157-43-66	4.8	222.3	3.3	1.7	11.0	7.9	76.1
18	157-43-67		219.6	3.2	2.4	11.1	8.7	74.5
19	157-43-68		216.4	3.3	2.4	12.9	8.7	72.7
20	157-43-69		221.3	3.4	1.6	11.9	7.1	76.0
21	157-43-70		222.5	3.4	1.6	11.2	6.9	76.8
	FP 1001 Half 01/13		203.1	4.4	2.7	15.7	13.9	63.3
	FP 1001 Half 01/13		203.0	4.4	2.7	15.7	14.0	63.2
24	157-43-71		222.6	3.0	2.2	10.3	8.4	76.1
25	157-43-72		224.1	3.2	2.2	9.6	7.4	77.6
26	157-43-73		221.9	3.3	2.0	10.7	8.0	76.0
27	157-43-74	4.8	223.0	3.3	1.5	11.6	6.4	77.2 -
28	157-43-75	4.9	222.8	3.2	1.7	11.5	6.8	76.9
29	157-43-76	4.1	221.3	3.4	2.2	10.8	7.6	76.0
30	157-43-77		219.7	3.5	2.0	12.1	6.8	75.5
31	157-43-78		220.3	3.4	2.5	11.0	7.4	75.7
32	157-43-79		222.5	3.3	1.9	10.5	7.4	76.4
33	157-43-80		222.4	3.3	2.3	10.3	7.9	76.7
34	157-43-81		219.9	3.5	2.3	10.2	8.7	74.8
35	157-43-82		216.3	3.7	2.6	12.8	7.5	73.5
36	157-43-83		223.5	3.5	2.2	9.6	7.3	77.5
37	157-43-84		220.9	3.3	2.2	10.5	8.0	75.7
38	157-43-85		216.8	3.4	2.0	13.7	7.5	73.4
39	157-43-86		218.2	3.5	2.0	12.4	8.0	74.0
40	157-43-87		213.0	3.5	2.3	15.3	7.6	71.4
41	157-43-88		223.2	3.2	2.7	9.2	7.5	77.3 -

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AGR	COLTURE CANAD	A MO	ORDEN R	ESEARC	H STATIO	)N		-
F-15	7B.XLS				IIIII			
		OILSEED	QUALITY	ANALYS	SIS			
SAN	PLES ANALYSED:	F2			DATE:	Jan. 13	1999	<del> </del>
CON	DITIONS:	Half seed	157-43	Yellow			1000	
	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3
	FP 1001 Half 01/13		176.1	5.6	3.1	29.5	12.2	49.5
43	157-43-89		219.1	3.3	` 1.8	12.7	7.6	74.5
44	157-43-90		222.6	3.5	2.2	9.9	7.9	76.6
45	157-43-91		219.8	3.1	2.5	11.2	8.6	74.7
46	157-43-92		219.7	3.3	1.6	12.7	7.6	74.8
47	157-43-93		221.3	3.3	1.9	11.9	6.5	76.4
48	157-43-94		220.1	3.4	1.5	12.6	7.4	75.1
49	157-43-95		220.0	3.6	2.2	10.9	8.3	75.0
50	157-43-96		225.9	3.2	2.1	9.0	6.6	79.0
51	157-43-97		217.0	3.5	1.7	13.8	7.6	73.4
52	157-43-98		211.0	3.6	1.9	16.6	8.0	69.9
53	157-43-99		220.3	3.3	2.2	10.6	9.4	74.5
54	157-43-100		225.2	3.2	1.9	9.6	7.0	78.3
55	FP 1001 Half 01/13		182.5	5.2	3.1	26.7	11.9	53.1

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1. Cross - 97-7741-4/US-S

3	AGRICULTURE CANADA MORDEN RESEARCH STATION								
• •		ICULTURE CANAD	A M						
	F2-25s1.XLS			<u> </u>					
			OILSEED	QUALITY	ANALYS				
•									
		PLES ANALYSED:				DATE:	Oct. 14	1998	
	CON	DITIONS:	157 25 se	ed 9	7- 774	1-4/	alde s	-5	
0	No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3
check				196.8	5.2	3.4	17.0	14.3	60.2
	2	J -		213.0	3.5	2.6	13.5	10.2	70.2
	3			213.2	3.6	2.9	13.1	9.3	71.1 i/
	4	157-3		208.2	3.6	2.8	16.1	9.4	68.1
	5			209.8	3.6	2.8	15.1	9.5	69.0
	6			214.9	3.3	2.7	12.9	9.4	71.7 v
	$\frac{7}{2}$	157-6		211.1	3.5	2.5	15.1	9.2	69.7
	8			208.1	3.5	2.4	17.2	8.9	68.0
	9			212.7		2.3	15.5	(8.6)	70.5
	10			211.9	3.2	2.4	15.3	9.4	69.8
	11			210.4	3.5	2.2	16.0	9.2	69.1
	12			211.7	3.1)	2.4	15.4	9.5	69.6
	13			210.7	3.4	2.3	15.9	9.0	69.4
	14			212.4	3.5	2.2	14.8	9.2	70.2
	15			213.6	3.6	2.4	13.9	9.0	71.1
ļ	16 17		<del></del>	214.1	3.4	2.3	13.9	9.3	71.1
	18	157-16		212.5	3.3	2.4	14.4	9.8	70.0
	19			210.9	3.4	2.4	15.9	8.7	69.7
- 1)		157-18 FP 1001 (25 seed)		211.8	3.4	2.3	14.9	9.8	69.5
cle	21			197.9	5.2	3.4	16.5	13.7	61.2
	22	157-19 157-20		212.8	3.5	2.4	14.2	9.6	70.3·
-	23	157-21		213.4 211.1	3.4	2.5	13.9	9.5	70.7 -
	24	157-22		211.1	3.4	2.3	15.3	9.8	69.2
	25	157-23		213.6	3.3	2.4	14.2	8.8	71.2
	26			206.8		2.7	14.8	9.3	69.9
	27	157-25		209.2	3.4	2.4	17.3	10.3	66.6
	28			212.8	3.4	2.3	16.7	9.4	68.2
	29			210.7	3.7	2.3	14.6	9.1	70.5
	30	157-28		210.7	3.7		15.4	9.5	69.2
-	31	157-29		215.2	3.7	2.4	15.1 13.6	9.9	69.4
ļ	32	157-30		211.2	3.6	2.8	14.7	9.1	72.2
ŀ	33			211.8	3.6	2.4	15.0	8.8	69.9
-	34	157-32	· · · · · · · · · · · · · · · · · · ·	206.8	4.1	2.6	16.7	9.0	70.2 67.6
ŀ	35			212.5	3.4	2.2	15.2	8.8	
ŀ	36			209.5	3.7	2.2	16.2	9.3	70.4
j	37	157-35	<del></del>	212.3	3.6	2.4	13.9	10.4	68.6 69.7
	38	157-36		213.2	3.5	2.4	14.4	9.2	
_	39	157-37		211.0	3.4	2.5	15.3	9.4	70.7
ch	40			196.8	5.2	3.4	17.0	14.2	69.4
u	41	157-38		212.7	3.5	2.2	14.4	9.8	60.3
	42	157-39		214.9	3.5	2.2	13.4	9.6	70.1 71.4 /
	43			213.0	3.3	2.2	14.2	10.1	
	44	157-41		210.0	3.3	2.4	16.3	9.2	70.1 68.8
	45			211.6	3.8	2.4	14.4	9.2	69.7
ļ	46		low	220.8		2.3	(10.9)	8.8	75.0
L		10, 10 924			1.5		17.2	( 0.0 ( )	
		1/					-		100

66.6-75.0

69.9

AGR	ICULTURE CANADA	M	ORDEN F	RESEARC	H STATIC	DN ON		-
F2-2	5s1B.XLS						<del></del>	
		OILSEED	QUALITY	ANALYS	SIS	<del> </del>		
		<del></del>	T					
SAM	PLES ANALYSED:	F2 Single	Plant		DATE:	Oct./29	1998	
CON	DITIONS:	157 25 se		7 7/	201	<del>                                     </del>	665	
			1		91-9	100	265-3	
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3
1	157-61		213.4	3.3	2.3	14.6	9.1	70.8
2	157-62	574	212.7	3.3	2.1	15.3	9.0	70.3
3	157-63	0.9	212.3	3.4	2.1	15.3	9.1	70.1
4	FP 1001 25 s 10/27		201.0	4.7	3.5	15.4	13.6	62.8
5	157-64		206.9	3.6	2.4	17.4	9.3	67.2
6	157-65		209.8	3.5	2.4	16.5	8.5	69.2
7	157-66		209.3	3.8	2.6	15.7	9.2	68.8
8	157-67		211.9	3.2	2.5	15.3	9.2	69.9
9	157-68		210.5	3.5	2.3	16.1	8.8	69.4
10	157-69		212.9	3.4	2.4	14.7	8.6	70.8
11	157-70		208.5	3.4	2.3	16.8	9.7	67.7
12	157-71		214.2	3.3	2.6	13.7	9.0	71.5
13	157-72		212.8	3.4	2.3	14.6	9.3	70.4
14	157-73		213.9	3.3	2.4	13.6	10.1	70.4
15	157-74	52		(3.1)	(2.1)	14.4	9.2	71.2
16	157-75		210.3	3.2	2.5	16.2	8.9	69.2
17	157-76		213.2	3.4	2.5	14.4	8.8	71.0
18	157-77		213.7	3.2	2.5	14.4	8.5	71.3
19	157-78		211.3	3.5	2.6	15.2	8.8	69.9
20	157-79		207.5	3.4	2.4	17.7	8.8	67.6
21	157-80		209.9	3.5	2.2	17.0	8.0	69.4
22	157-81		211.5	3.2	2.3	15.6	9.3	69.6
23	157-82		210.9	3.2	2.3	15.9	9.5	69.1
24	FP 1001 Bulk 10/27		196.9	5.2	3.5	16.9	14.1	60.4
25	157-83		213.0	3.2	2.4	15.0	8.5	70.9
26	157-84		213.7	3.3	2.4	14.6	8.3	71.4
27	157-85		211.1	3.2	2.5	15.8	8.7	69.8
28	157-86		214.4	3.5	2.4	13.5	9.0	71.5
29	157-87		210.9	3.3	2.3	15.8	9.2	69.3
30	157-88		211.7	3.5	2.4	15.2	8.8	70.1
31	157-89		214.4	3.5	2.3	13.4	9.5	71.2
32	157-90		213.2	3.6	2.4	14.2	9.0	70.9
33	FP 1001 Bulk 10/27		196.8	5.2	3.5	17.0	14.0	60.3
34	157-91		211.9	3.2	2.6	15.1	9.2	69.9
35	157-92		213.6	3.5	2.4	13.7	9.6	70.8
36	157-93		213.2	3.4	2.4	14.4	9.1	70.7
37	157-94		208.9	3.4	2.3	16.8	9.4	68.1
38	157-95		207.8	3.3	2.3	17.5	9.4	67.5
39	157-96		211.3	3.4	2.6	15.1	9.3	69.7
40	157-97		210.3	3.7	2.2	16.4	7.9	69.8
41	157-98		209.4	3.2	2.3	17.0	8.7	68.7

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	RICULTURE CANADA	. M	orden f	RESEAR	CH STATIO	ON		
F2-2	25s1B.XLS							
		OILSEED	QUALITY	ANALY	SIS		<u> </u>	1
SAN	//PLES ANALYSED:	F2 Single	Plant		DATE:	Oct. 29	1998	
CONDITIONS:		157 25 seed 🥱		7- 77		<del>  / </del>	475	
					7/		13:3	
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:
42			210.8	3.5	2.5	15.3	9.3	69
43	157-100	5 ich	213.6	3.2	2.2	15.0	8.5	71.
44			213.2	3.4	2.4	14.4	8.8	70
45			211.8	3.3	2.3	15.0	10.0	69
46			213.8	3.2	2.4	14.5	8.8	71.
47			212.3	3.5	2.5	14.5	9.1	70
48			212.4	3.4	2.6	14.5	9.2	70
49			210.3	3.1	2.4	16.5	8.9	69.
50			213.1	3.4	2.4	13.8	10.1	70.
51			210.7	3.6	2.5	15.2	9.5	69.
52			200.7	4.8	3.5	15.4	13.7	62.
53			212.5	3.5	2.3	15.2	8.2	70.
54			210.6	3.7	2.6	15.1	8.8	69.
55			212.2	3.3	2.5	14.9	9.1	70.
56		5.5	215.0	3.2	2.3	14.6	7.6)(	72.
57			211.2	3.3	2.4	15.2	10.0	69.
58			215.0	3.4	2.2	13.9	8.5	72.
59			213.4	3.5	2.3	13.8	10.0	70.
60			210.0	3.5	2.4	15.8	9.8	68.
61			212.1	3.3	2.3	15.0	9.5	69.
62			208.5	3.3	2.5	16.7	9.6	67.
63			206.4	3.4	2.6	17.7	9.4	66.
64			211.2	3.5	2.6	14.8	9.7	69.4
	FP 1001 Bulk 10/27		196.9	5.2	3.4	16.9	14.0	60.

69.9

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	ICULTURE CANAD	JA IVI	ORDEN R	ESEARC	אכ			
F2-2	5s5.XLS						İ	
		OILSEED	QUALITY	ANALYS	SIS			
	PLES ANALYSED:				DATE:	Oct. 16	1998	
CON	DITIONS:	97-7163	25 seed					
No:	IDENTIFICATION	PLOT	IODINE	16:0	18:0	18:1	18:2	18:3
1	97-7163,1		213.2	3.5	2.7	13.9	(8.9)	71.0
2	97-7163,2		213.8	3.6	2.7	13.2	9.1	71.3
3	97-7163,3		214.2	3.5	2.8	12.7	9.6	71.3
4	97-7163,4		214.0	3.5	2.5	13.8	8.8	71.5
5	97-7163,5		212.6	3.4	2.5	15.0	8.0	71.0
6	97-7163,6		214.7	3.5	2.5	13.1	9.2	71.7
7	97-7163,7		213.3	3.4	2.6	13.5	9.9	70.5
8	FP 1001 Bulk		196.9	5.2	3.3	16.9	14.3	60.2
9	97-7163,8		213.3	3.5	2.5	13.8	9.5	70.7
10			214.3	3.4	2.6	13.3	9.2	71.5
11	97-7163,10		214.8	3.5	2.5	13.3	(8.8)	71.9

3.4-3.6 2.6.2.8 47.16.0 8.0.99 71.2

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97-7163-5 - 8.0 hindei

8.0 - 9.9.